

## Product datasheet

# Anti-FGD4 antibody ab97785

[2 References](#)   [3 Images](#)

### Overview

<b>Product name</b>	Anti-FGD4 antibody
<b>Description</b>	Rabbit polyclonal to FGD4
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment, corresponding to a sequence within amino acids 49-297 of Human FGD4 (NP_640334).
<b>Positive control</b>	293T, A431, H1299, HeLa, HepG2, MOLT4 and Raji whole cell lysates; HeLa cells; SG xenograft tissue.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.01% Thimerosal (merthiolate) Constituents: 10% Glycerol, 0.1M Tris, 0.1M Glycine, pH 7.0
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab97785** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

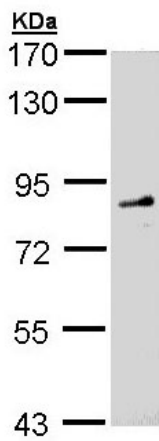
Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 87 kDa.
IHC-P		Use at an assay dependent concentration.

Application	Abreviews	Notes
ICC/IF		1/100 - 1/200.

## Target

<b>Function</b>	Activates CDC42, a member of the Ras-like family of Rho-and Rac proteins, by exchanging bound GDP for free GTP. Plays a role in regulating the actin cytoskeleton and cell shape. Activates MAPK8.
<b>Tissue specificity</b>	Expressed in different tissues, including brain, cerebellum, peripheral nerve, skeletal muscle, heart, uterus, placenta and testis.
<b>Involvement in disease</b>	Charcot-Marie-Tooth disease 4H (CMT4H) [MIM:609311]: A recessive demyelinating form of Charcot-Marie-Tooth disease, a disorder of the peripheral nervous system, characterized by progressive weakness and atrophy, initially of the peroneal muscles and later of the distal muscles of the arms. Charcot-Marie-Tooth disease is classified in two main groups on the basis of electrophysiologic properties and histopathology: primary peripheral demyelinating neuropathies (designated CMT1 when they are dominantly inherited) and primary peripheral axonal neuropathies (CMT2). Demyelinating neuropathies are characterized by severely reduced nerve conduction velocities (less than 38 m/sec), segmental demyelination and remyelination with onion bulb formations on nerve biopsy, slowly progressive distal muscle atrophy and weakness, absent deep tendon reflexes, and hollow feet. By convention autosomal recessive forms of demyelinating Charcot-Marie-Tooth disease are designated CMT4. Note=The disease is caused by mutations affecting the gene represented in this entry.
<b>Sequence similarities</b>	Contains 1 DH (DBL-homology) domain. Contains 1 FYVE-type zinc finger. Contains 2 PH domains.
<b>Domain</b>	The part of the protein spanning the actin filament-binding domain together with the DH domain and the first PH domain is necessary and sufficient for microspike formation. Activation of MAPK8 requires the presence of all domains with the exception of the actin filament-binding domain.
<b>Cellular localization</b>	Cytoplasm > cytoskeleton. Cell projection > filopodium. Concentrated in filopodia and poorly detected at lamellipodia. Binds along the sides of actin fibers.

## Images

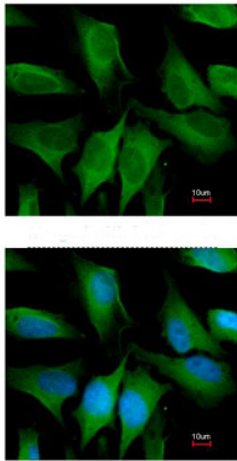


Anti-FGD4 antibody (ab97785) at 1/1000 dilution + MOLT4 whole cell lysate at 30 µg

**Predicted band size:** 87 kDa

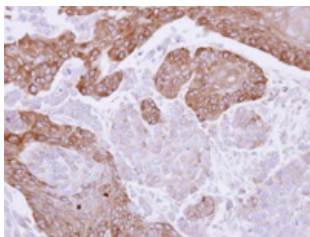
7.5% SDS-PAGE.

Western blot - Anti-FGD4 antibody (ab97785)



ab97785 at 1/200 dilution staining FGD4 in HeLa cells by Immunofluorescence, Paraformaldehyde fixed. Lower image is merged with DNA probe.

Immunocytochemistry/ Immunofluorescence - Anti-FGD4 antibody (ab97785)



ab97785 at 1/100 dilution staining FGD4 in SG xenograft by Immunohistochemistry, Paraffin-embedded tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FGD4 antibody (ab97785)

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